

2

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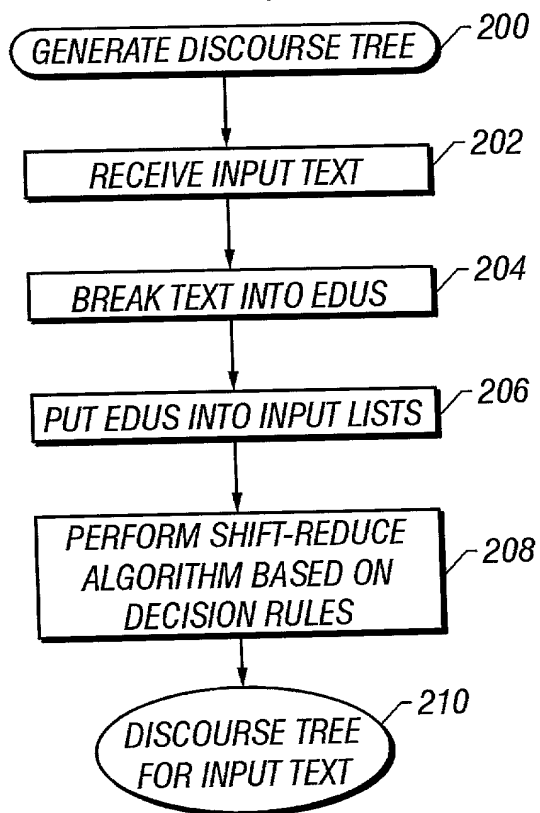


FIG. 2

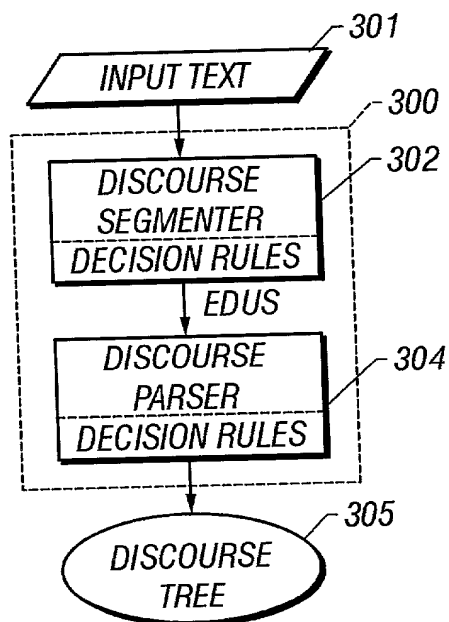
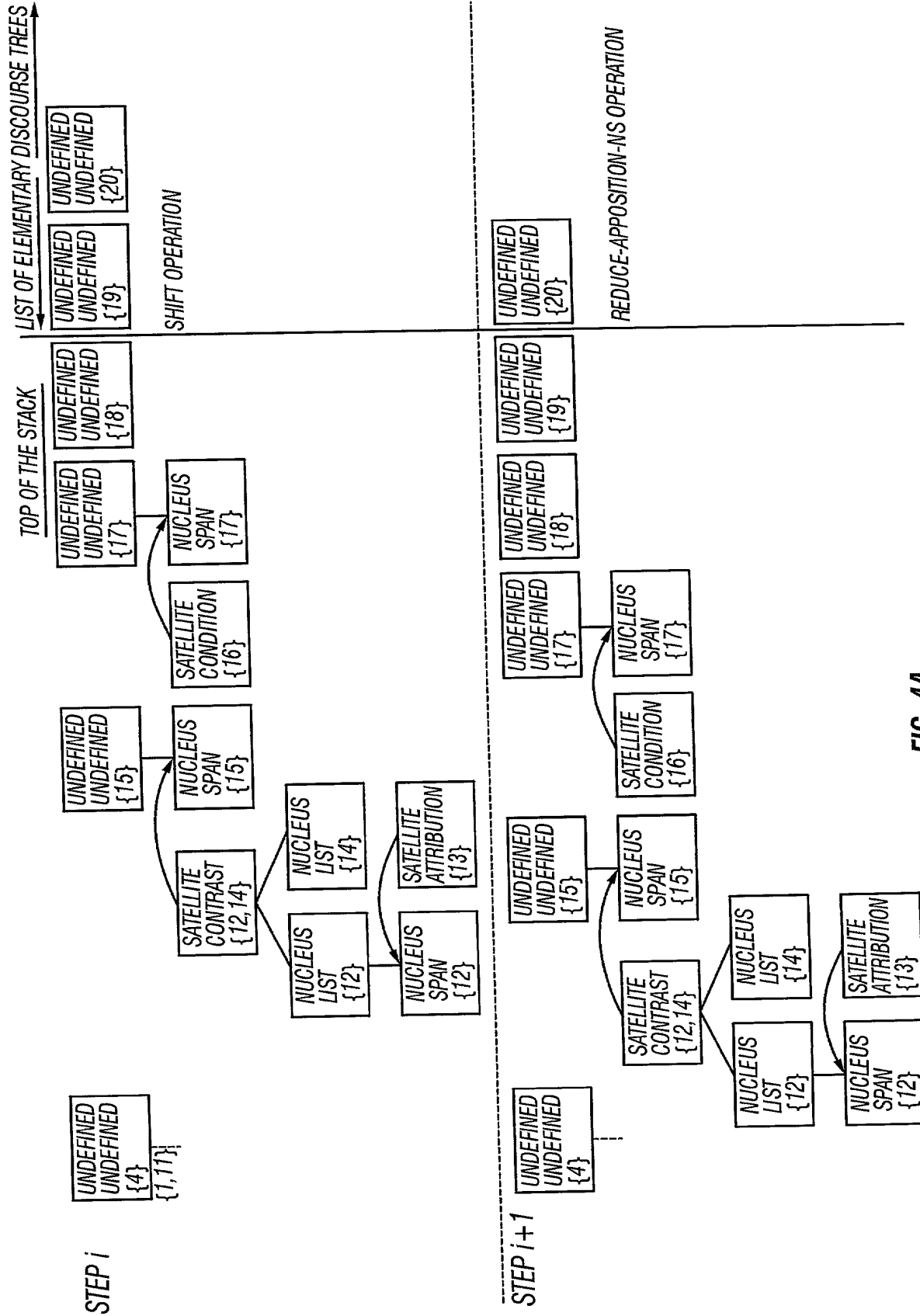


FIG. 3



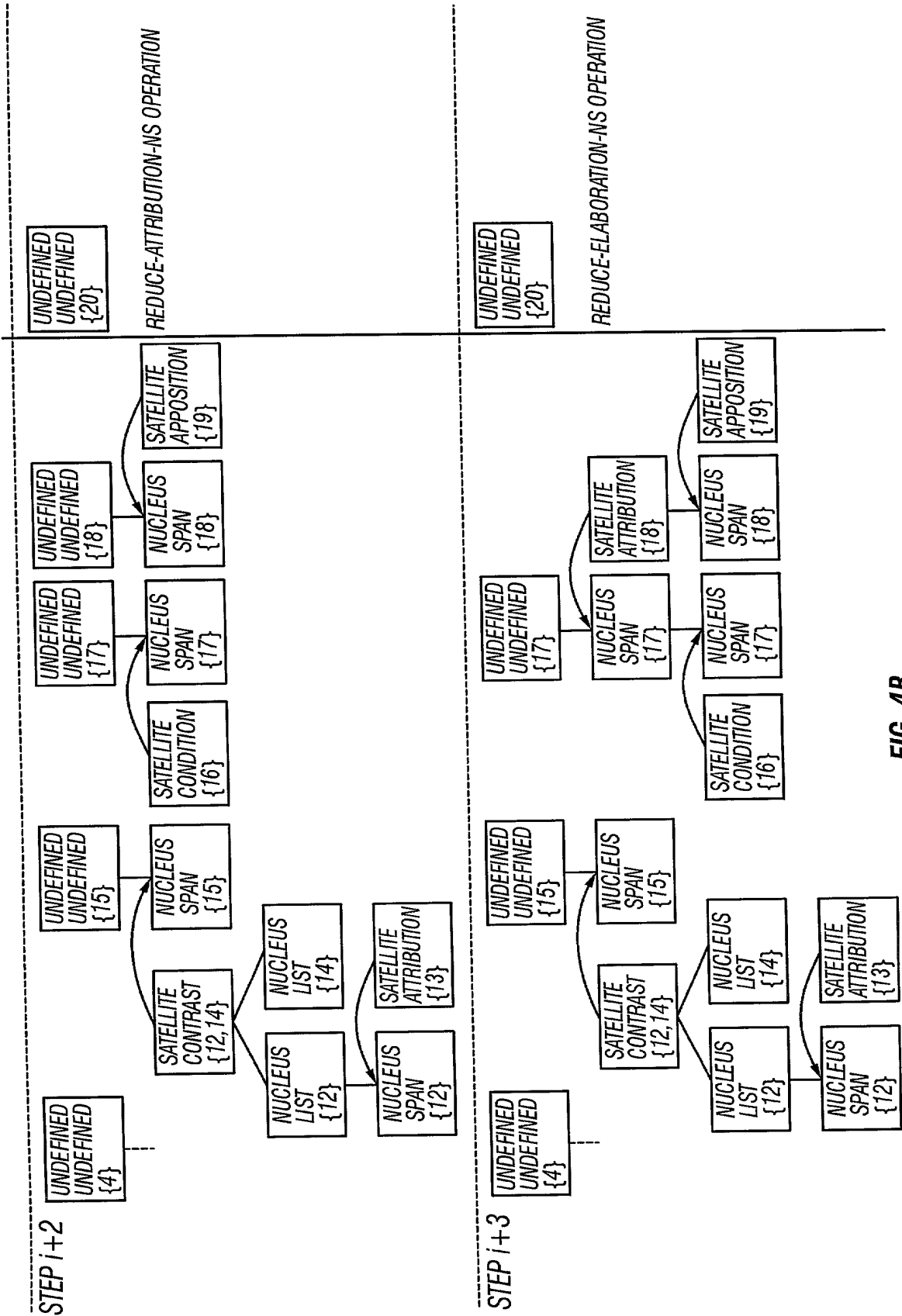


FIG. 4B

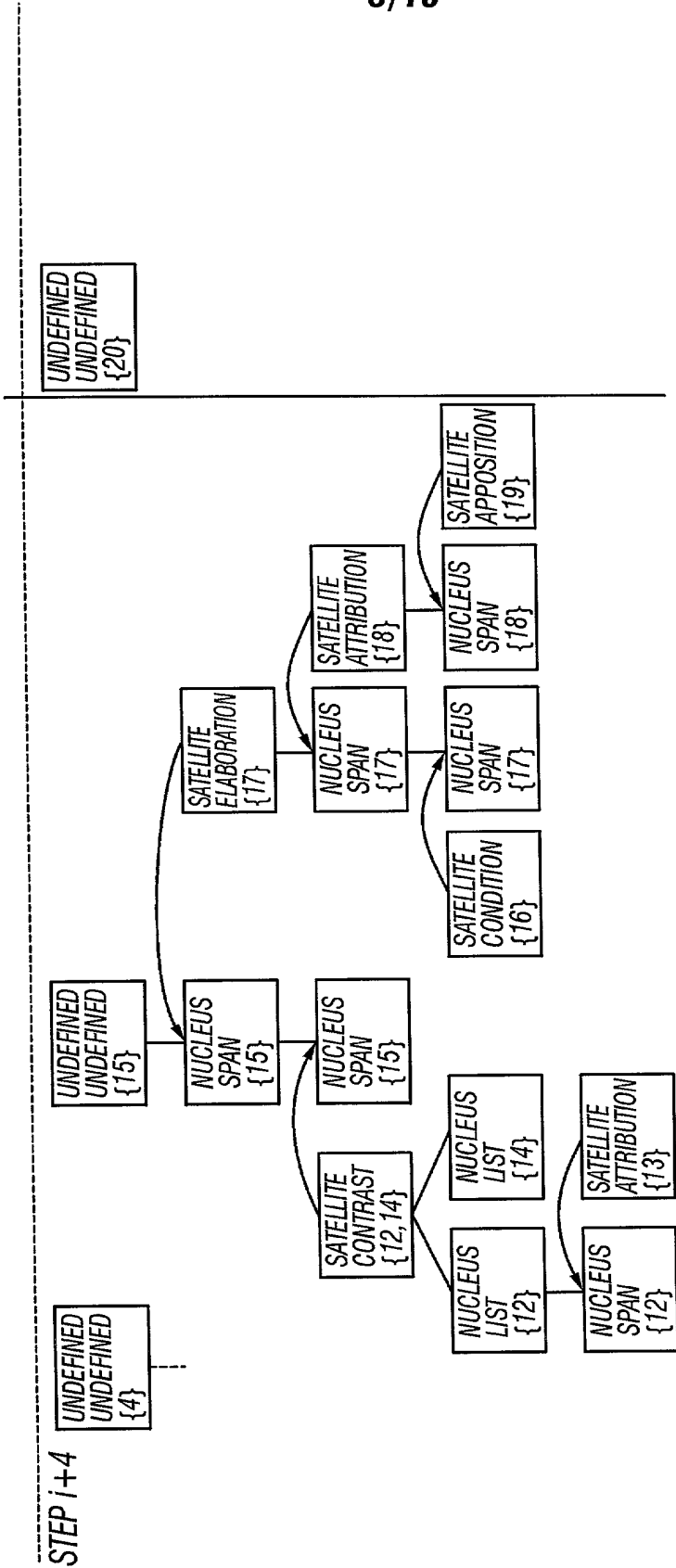


FIG. 4C

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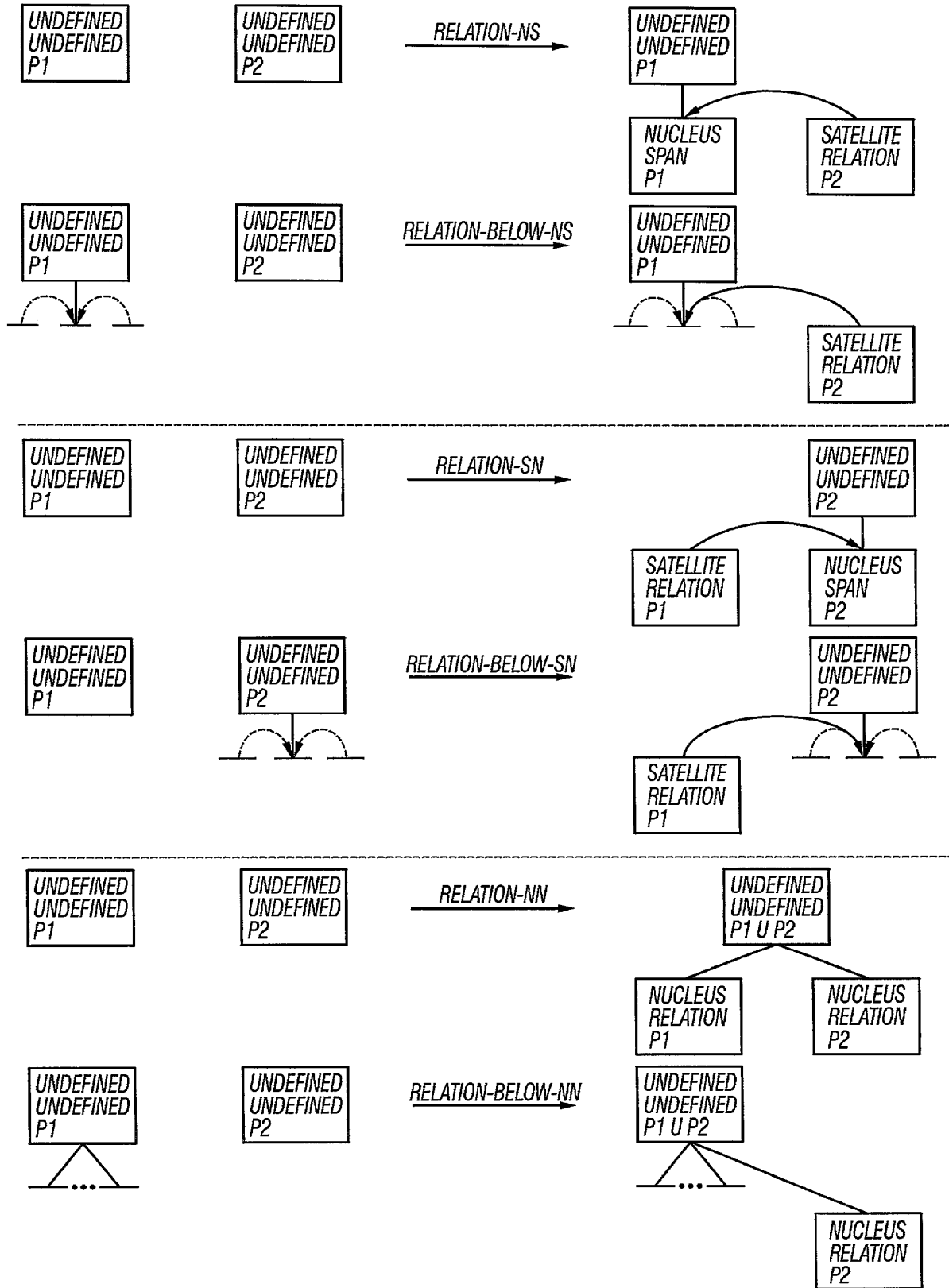


FIG. 5

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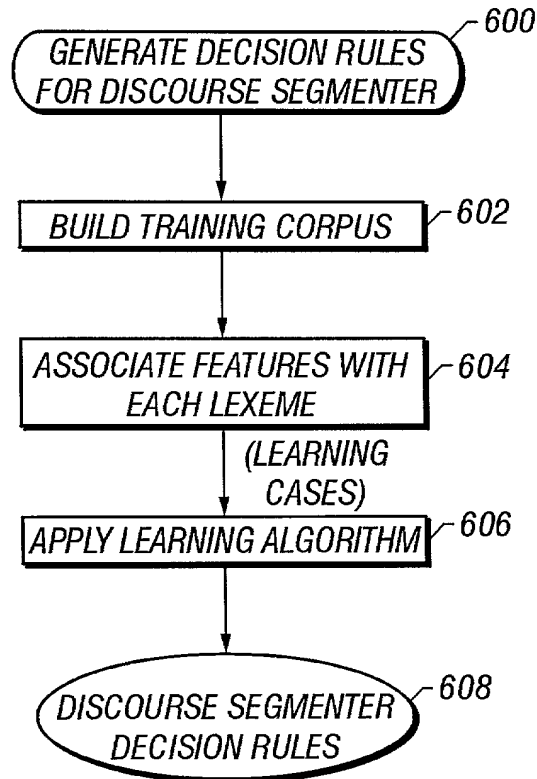
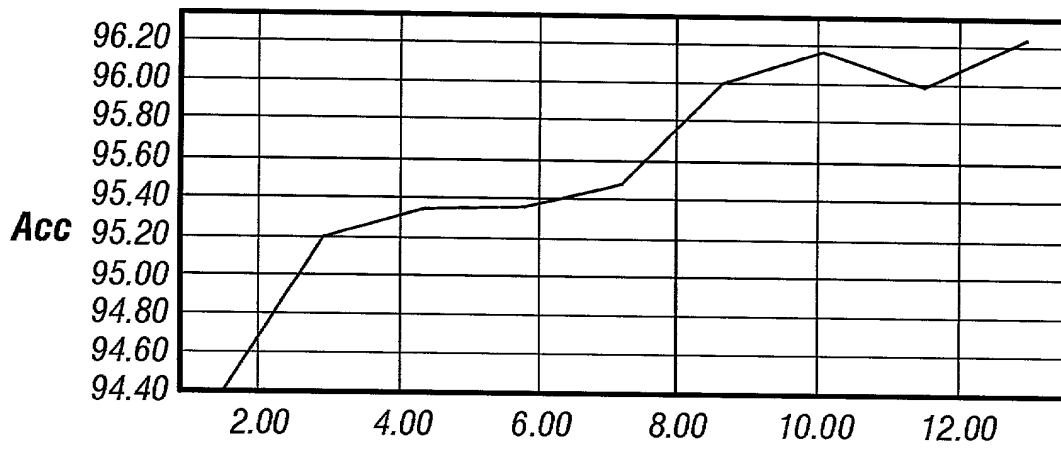


FIG. 6

- Rule 1: **if** pos(-1) = ")" ^ previous-marker = "("  
           **then** end-paren
- Rule 2: **if** pos(-1) = "," ^ pos (0) = CD  
           pos(+1) = NNS  
           **then** start-paren
- Rule 3: **if** pos(-1) ≠ DOT ^ pos(0) = DOT  
           pos(+1) ≠ DOT ^ pos(+1) ≠ DOUBLEQUOTE  
           **then** end-sentence
- Rule 4: **if** pos(+2) = VBD ^ word(+1) = "and"  
           **then** edu-break
- Rule 5: **if** word(+1) = "until" ^ isThereAnyVerbBeforeNextPotentialBreak  
           **then** edu-break
- Rule 6: **if** pos(0) = "." ^ previous-marker = "while"  
           **then** edu-break
- Rule 7: **if** pos(1) = DOT  
           **then** nothing

FIG. 6A

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# cases x 10<sup>3</sup>

FIG. 7

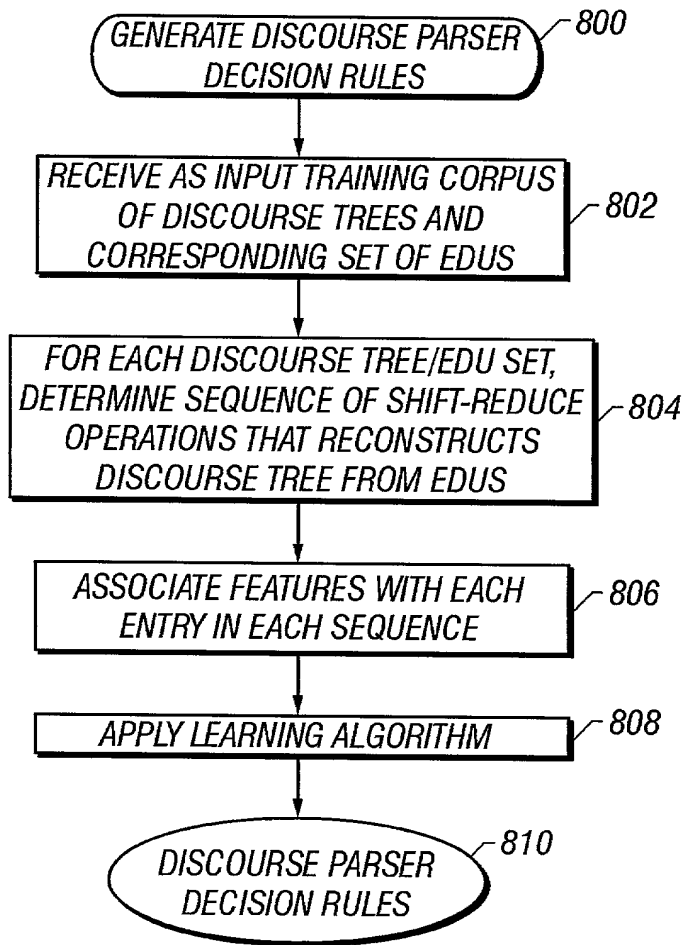


FIG. 8



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Rule 1: **if** lastTag(Top-1) = "," ^ position(firstUnit(Top-1),"if") = 'b'  
**then** REDUCE-CONDITION-SN

Rule 2: **if** firstTag(Top) = WRB ^  
secondTag(Top) ≠ VBG ^  
position(firstUnit(Top),"when") = 'b' ^  
sim(Top,Unit) > 0.0793052  
**then** REDUCE-BACKGROUND-CIRCUMSTANCE-NS

Rule 3: **if** lastTag(Top-1) = NNS ^  
firstTag(Top) = IN ^  
hyponymy(Top-1,Top) = synonymy(Top-1,Top)  
**then** REDUCE-BACKGROUND-CIRCUMSTANCE-NS

Rule 4: **if** isParagraphEnd(Top) ^  
position(FirstUnit(Top),"but") = 'b'  
**then** REDUCE-CONTRAST-NN

Rule 5: **if** noTreesInStack ≤ 2 ^  
noUnitsInList = 0 ^  
topRelation(Top-1) ≠ TEXTUAL  
**then** REDUCE-TEXTUAL-NN

FIG. 8A

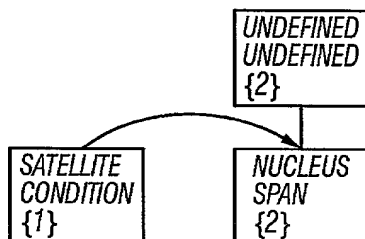


FIG. 8B

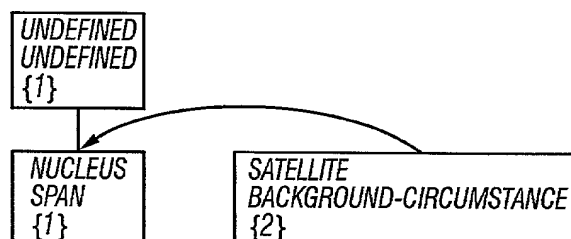


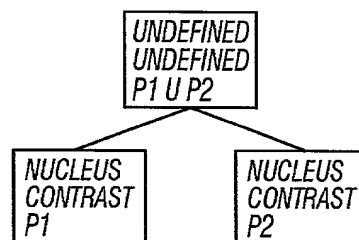
FIG. 8C

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[Some of the executives who attended yesterday's session weren't a surprise. Tenneco Inc. Chairman Michael Walsh, for instance, is a staunch Democrat who provided an early endorsement for Mr. Clinton during the presidential campaign. Xerox Corp.'s Chairman Paul Allaire was one of the few top corporate chief executive officers who contributed money to the Clinton campaign. And other, such as Atlantic Richfield Co. Chairman Lodwick M. Cook and Zenith Electronics Corp. Chairman Jerry Pearlman, have also previously voiced their approval of Mr. Clinton's economic strategy.<sup>1</sup>] [But some faces were fresh. Norman Augustine, the chairman of defense contractor Martin Marietta Corp., is a registered Republican who has never stood behind Mr. Clinton. It was also the first formal show of support by Rand Araskog, the chairman of ITT Corp.<sup>2</sup>]

**FIG. 8D**



**FIG. 8E**

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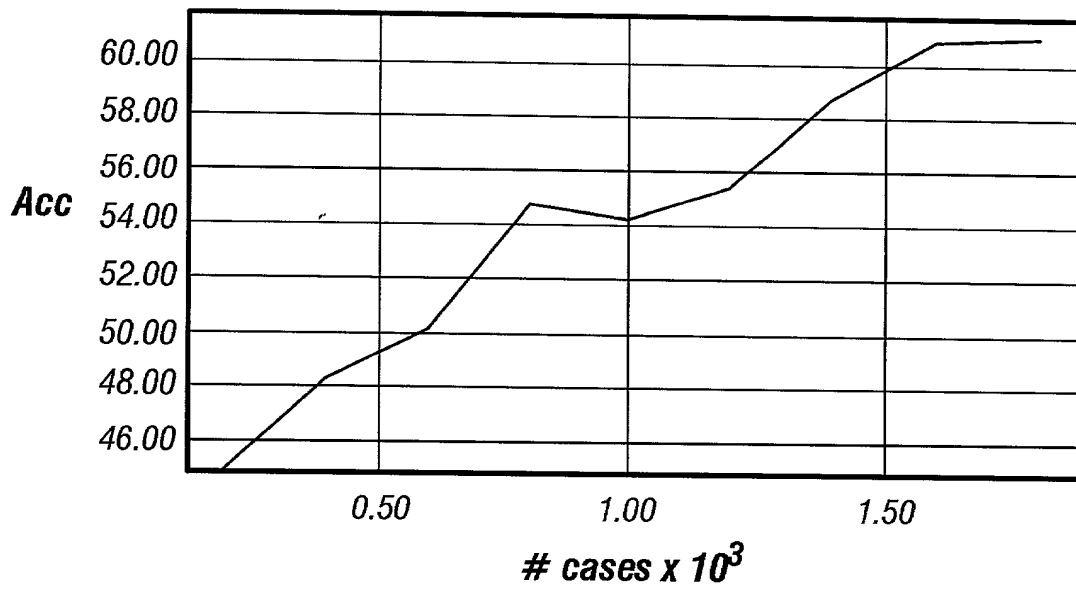


FIG. 9

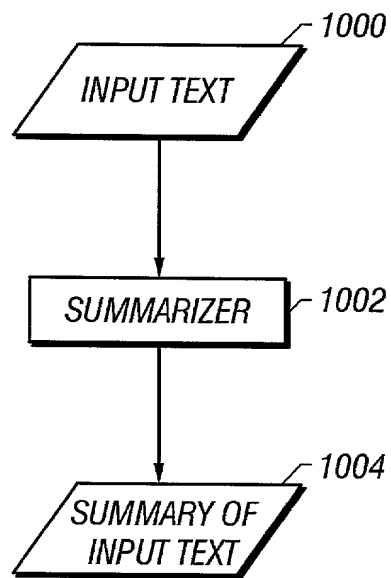


FIG. 10

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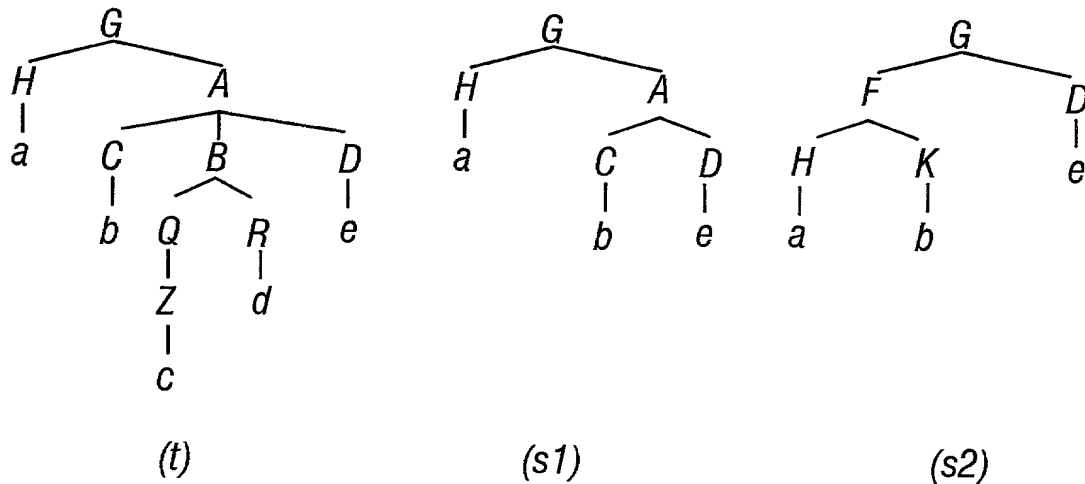


FIG. 11

*The documentation is typical of Epson quality: excellent.  
Documentation is excellent.*

*All of our design goals were achieved and the delivered performance  
matches the speed of the underlying device. All design goals were achieved.*

*Reach's E-mail product, MailMan, is a message-management system  
designed initially for VINES LANs that will eventually be operating system-  
independent. MailMan will eventually be operating system-independent.*

*Although the modules themselves may be physically and/or electrically  
incompatible, the cable-specific jacks on them provide industry-standard  
connections. Cable-specific jacks provide industry-standard connections.*

*Ingress/Star prices start at \$2,100.  
Ingress/Star prices start at \$2,100.*

FIG. 12

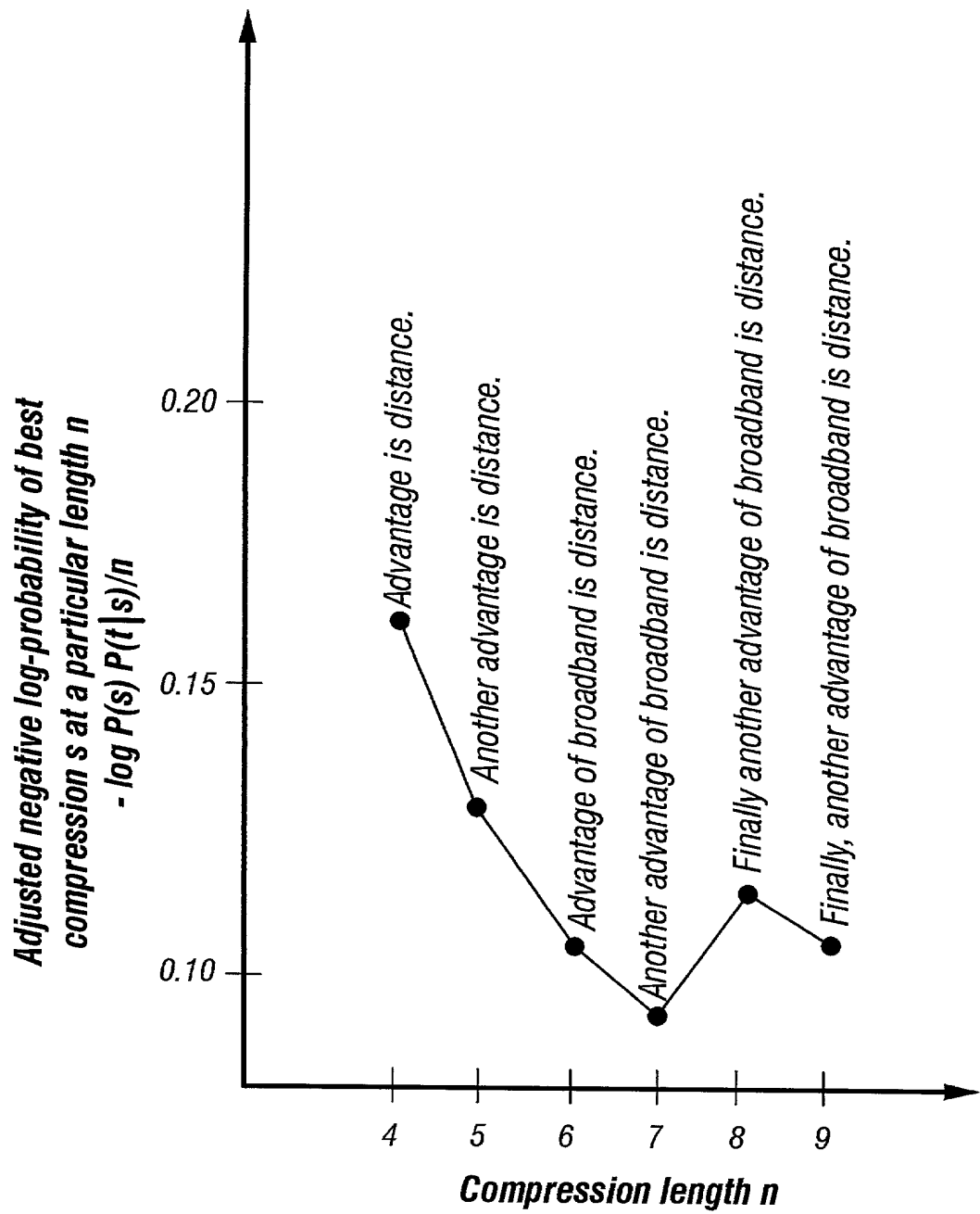


FIG. 13

STACK	INPUT LIST	STACK	INPUT LIST
G H A a C B b Q R Z d c	D SHIFT; ASSIGNTYPE H STEPS 1-2	F H K     a b	B D Q R e Z d c
H A C B b Q R Z d c	D SHIFT; ASSIGNTYPE K STEPS 3-4	F H K     a b	D SHIFT; ASSIGNTYPE D STEPS 7-8
H K     a b	D REDUCE 2 F STEP 5	F H K     a b	D REDUCE 2 G STEPS 9
		G F H K     a b	

FIG. 14

Original:	Beyond the basic level, the operations of the three products vary widely.
Baseline:	Beyond the basic level, the operations of the three products vary widely.
Noisy-channel:	The operations of the three products vary widely.
Decision-based:	The operations of the three products vary widely.
Humans:	The operations of the three products vary widely.
Original:	Arborscan is reliable and worked accurately in testing, but it produces very large dxf files.
Baseline:	Arborscan and worked in, but it very large dxf.
Noisy-channel:	Arborscan is reliable and worked accurately in testing, but it produces very large dxf files.
Decision-based:	Arborscan is reliable and worked accurately in testing very large dxf files.
Humans:	Arborscan produces very large dxf files.
Original:	Many debugging features, including user-defined break points and variable-watching and message-watching windows, have been added.
Baseline:	Debugging, user-defined and variable-watching and message-watching, have been.
Noisy-channel:	Many debugging features, including user-defined points and variable-watching and message-watching windows, have been added.
Decision-based:	Many debugging features.
Humans:	Many debugging features have been added.

FIG. 15

*Beyond that basic level, the operations of the three products vary widely (1514588)*

*Beyond that level, the operations of the three products vary widely (1430374)*

*Beyond that basic level, the operations of the three products vary (1333437)*

*Beyond that level, the operations of the three products vary (1249223)*

*Beyond that basic level, the operations of the products vary (1181377)*

*The operations of the three products vary widely (939912)*

*The operations of the products vary widely (872066)*

*The operations of the products vary (748761)*

*The operations of products vary (690915)*

*Operations of products vary (809158)*

*The operations vary (522402)*

*Operations vary (662642)*

**FIG. 16**



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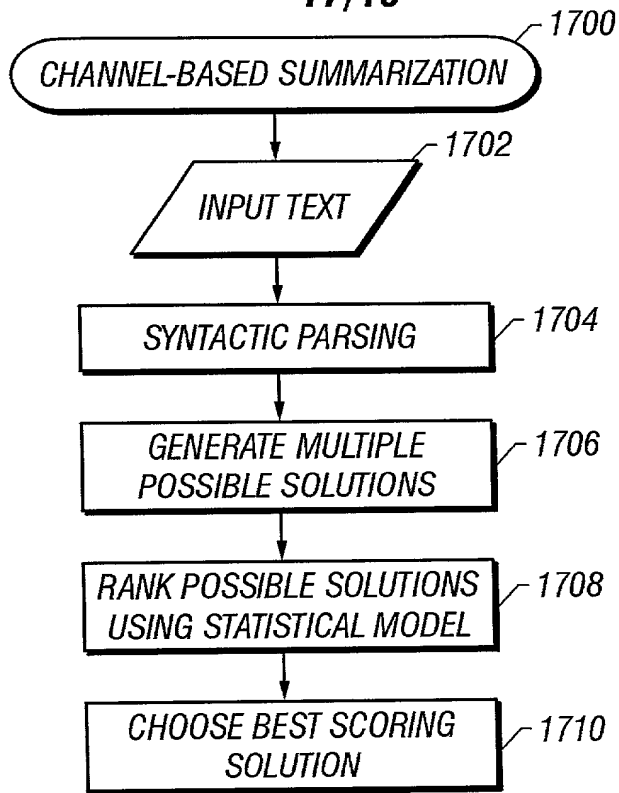


FIG. 17

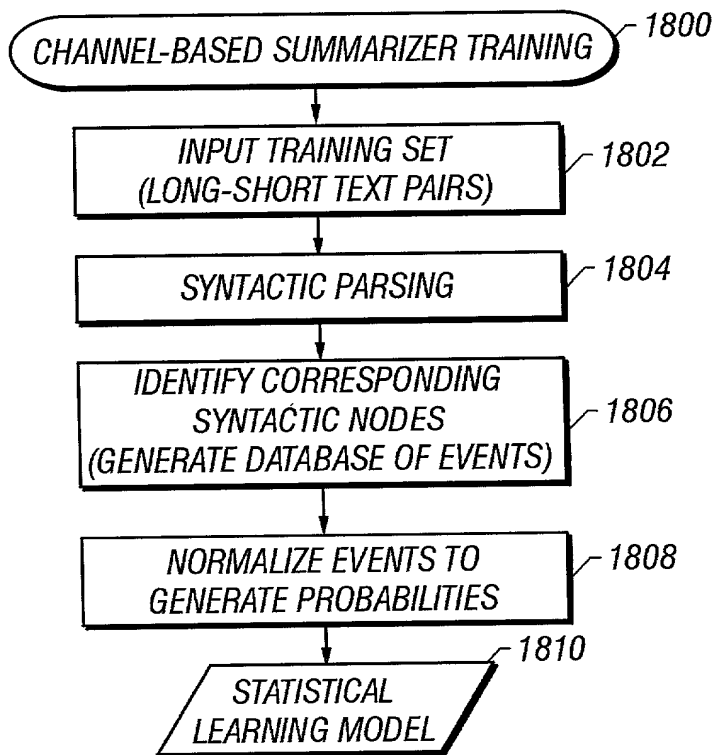
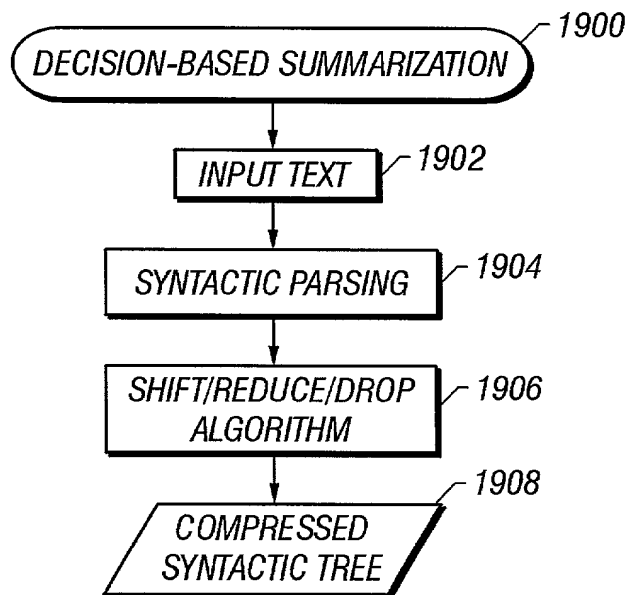


FIG. 18

- Rule 1: IF previous operation was not "Reduce" AND  
previous operation was not "Shift" AND  
previous operation was not "AssignType" AND  
the input list starts with a syntactic constituent of type WHPP  
THEN drop from the input list the words subsumed by WHPP.
- Rule 2: IF there is only one tree in the stack AND  
previous operation was "Reduce" AND  
the syntactic label of the tree in the stack is NP-A AND  
the input list starts with a syntactic constituent of type WHNP  
THEN drop from the input list the words subsumed by WHNP.
- Rule 3: IF previous operation was "Drop" AND  
the input list starts with a syntactic constituent of type ADJP AND  
the input list does not start with a syntactic constituent of type NP  
THEN drop from the input list the words subsumed by ADJP.

**FIG. 18A****FIG. 19**

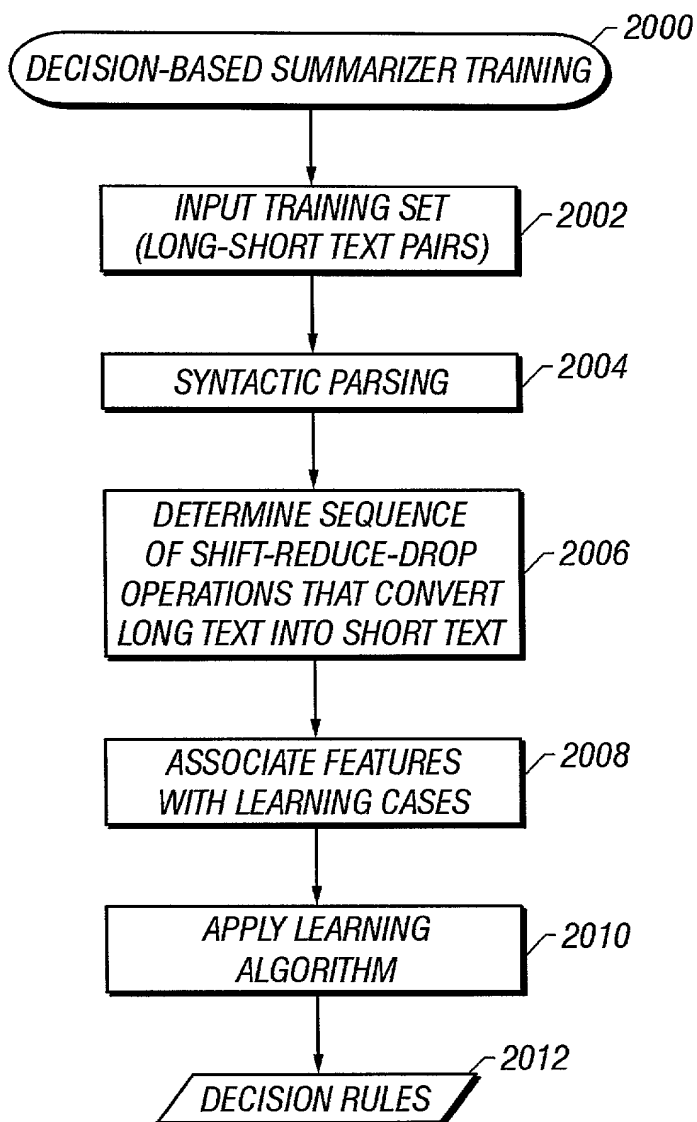


FIG. 20